

Engineer: Bruce Page	Date: 2/28/05				
Drawn: Bruce Page	Date: 2/28/05				
Approved: Chris Samios	Date: 2/28/05				
Issued/ Revised	Date: 2/28/05	Size: A	Dwg. #: <b>5961-271288-APP</b>	Rev: <b>A</b>	Sheet: 1 Of 1

**Raytheon**

**JPS Communications**  
5800 Departure Drive, Raleigh, NC 27616

**APPLIES TO:** ICOM F50 Portable  
ICOM F60 Portable

**RADIO MODIFICATIONS:** None required.

**RADIO PROGRAMMING:** Not required

**RADIO CONTROLS:**

1. Adjust the Volume Control until the yellow "SIGNAL" indicator on the associated DSP Module flashes with receive audio. Should be about in the mid-range (12 o'clock) position.

**CABLING:**

Standard ACU-1000 and ACU-T Interface cables are made up of a 2 foot TRP Radio Tray Interface cable and the appropriate 13-foot Extension cable.

ACU-1000 Interface Cable	JPS P/N 5961-291288	(5961-271288 + 5961-261002-00)
ACU-T Cable	JPS P/N 5961-281288	(5961-271288 + 5961-281013-00)
TRP-1000 Shelf Interface Cable	JPS P/N 5961-271288	
RF Connector Type	NA	

**DSP-1 JUMPERS:**

JP1	Low Impedance *
JP2	Balanced *

**DSP PROGRAMMING:**

RX Level	3*	0dBm*
TX Level	6*	0dBm*
Squelch Type	VOX*	
COR Polarity	Active Low*	
High Frequency Equalizer	4*	Flat*
RX Audio Delay	2*	100 ms*
TX Audio Delay (Radio Type)	0*	No Delay*
Noise Reduction Value	0*	Off*
VOX/VMR Threshold	1*	Med1*
VOX/VMR Hang Time	3*	775 ms*
COR Inhibit After PTT	1*	100 ms*
All Others	As needed	

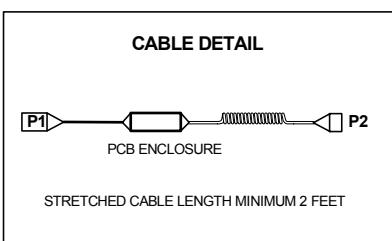
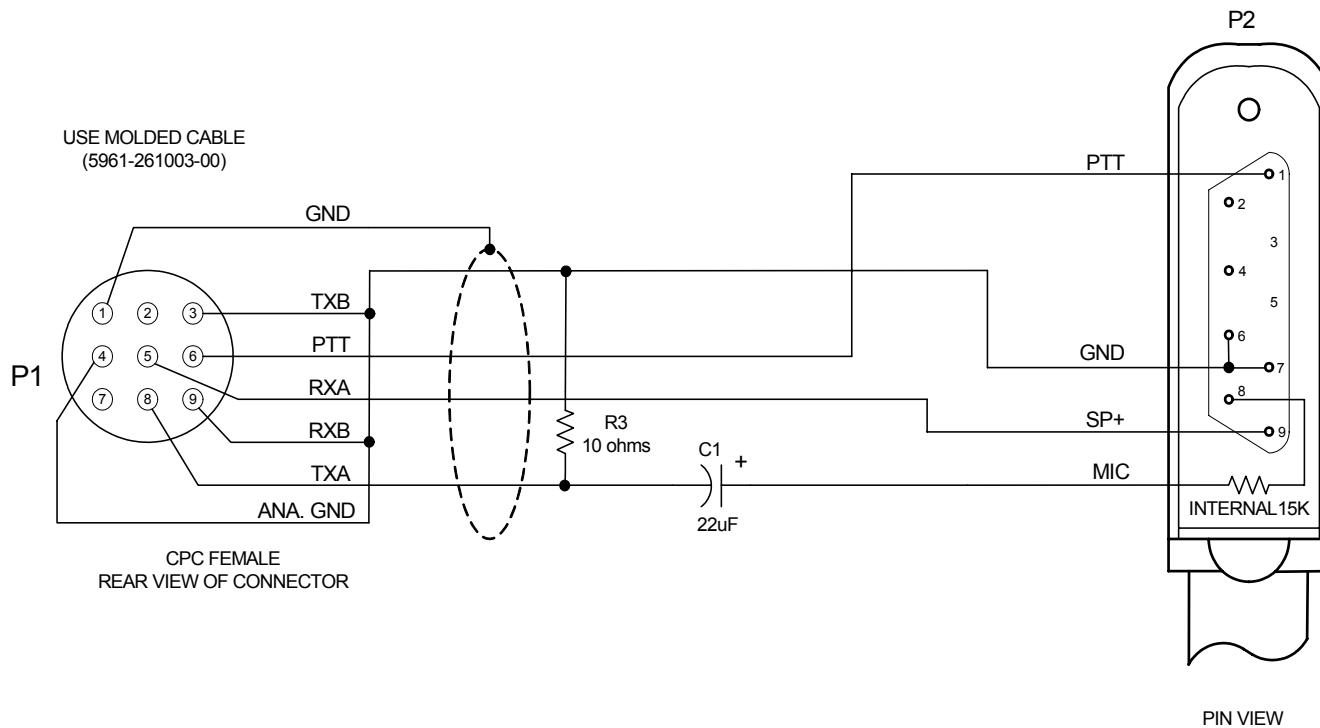
(\* Indicates Default Value)

**NOTES:**

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## PURCHASED PART

COIL CORD ASSEMBLY TAKEN FROM  
KLEIN BODYGUARD S7  
(JPS P/N 0314-000218)



COMPONENT PCB (JPS P/N 5961-271000)	
C1	JPS P/N 0321-220250
R3	JPS P/N 1820-100000
JU2	
JU4	
JU5	
JU6	

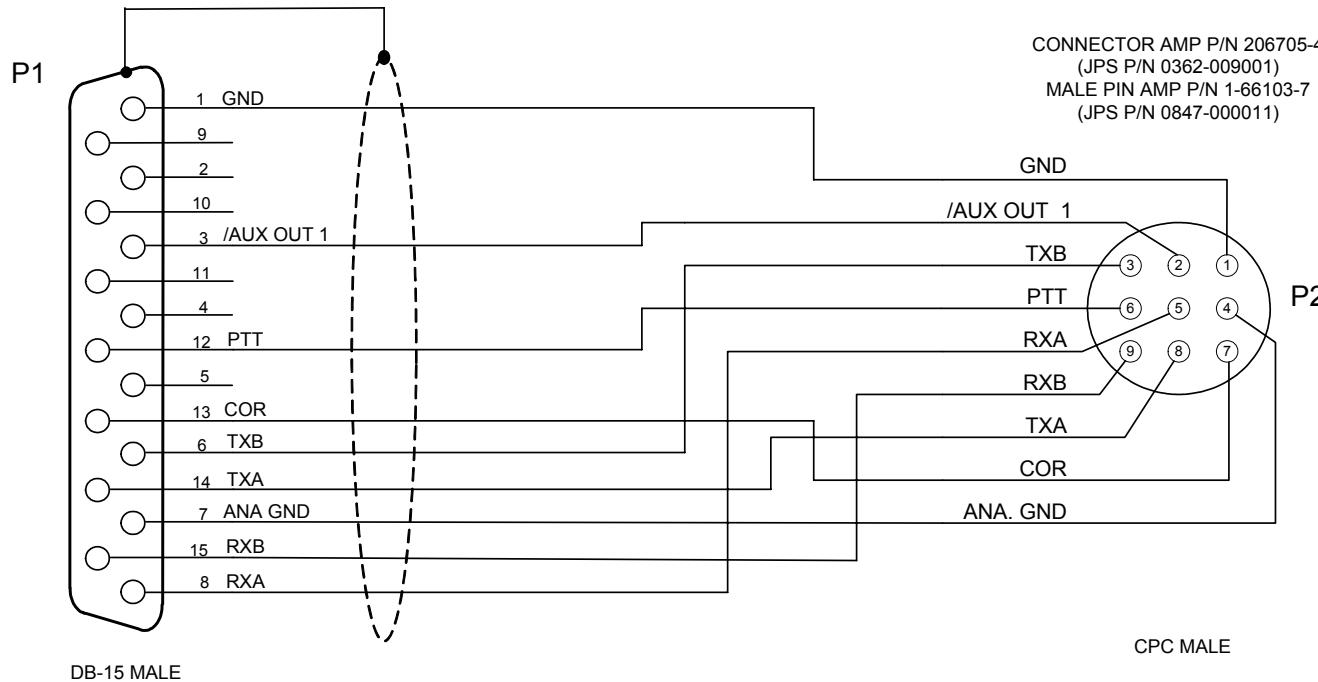
USED WITH:  
ICOM F50 PORTABLE RADIO  
ICOM F60 PORTABLE RADIO

NOTES: SHIELD DRAIN CONNECTED TO PIN 1 OF P1 ONLY.

Designed By:	RBP	<b>Raytheon JPS Communications</b> Raleigh, NC USA		
Drawn By:	RBP	Title CABLE, CPC TO ICOM F50, F60		
Checked By:	CTS	Size A	Document Number <b>5961-271288</b>	Rev A
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# PURCHASED PART

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NOTES: 1) USE BELDEN 9934 SHIELDED CABLE.  
2) CONNECT SHIELD DRAIN TO SHELL OF P1 ONLY.  
3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.  
4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND  
REV, VENDOR CODE AND DATE (MM/YY).

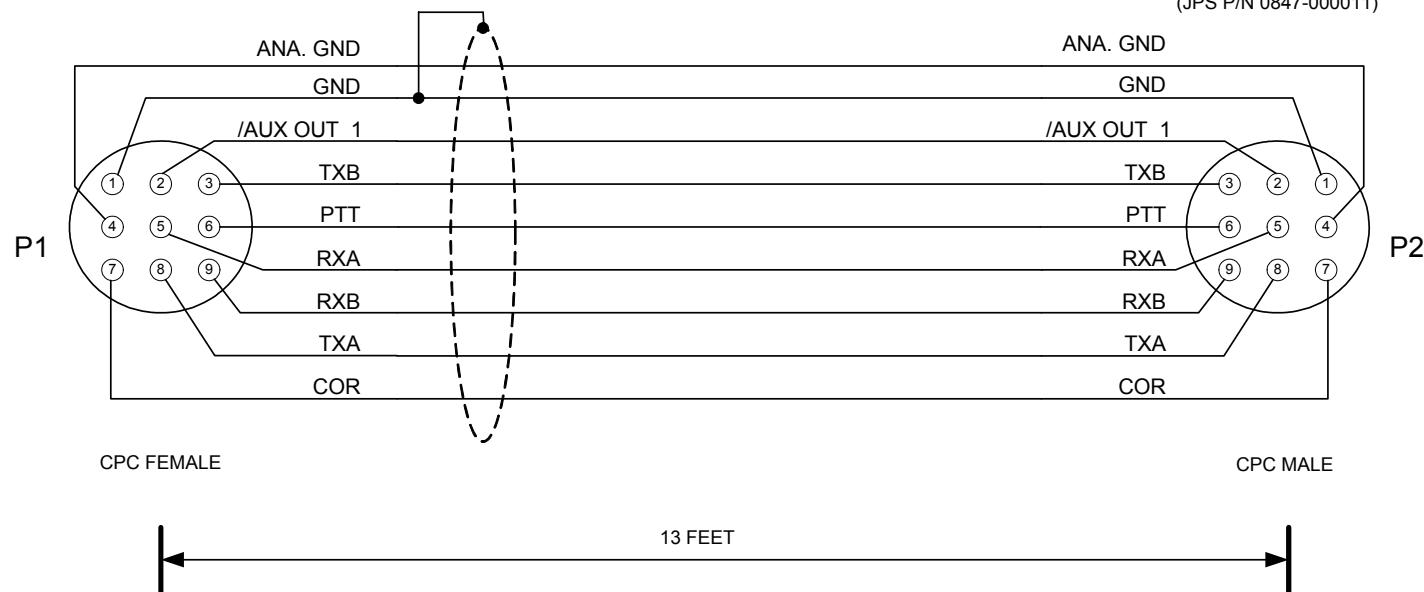
Designed By: JAC	<b>Raytheon JPS Communications</b>		
Drawn By: JAC	Title	CABLE, ACU-1000 RADIO EXTENSION - 13 FT	
Checked By: RBP	Size A	Document Number <b>5961-261002-00</b>	Rev A
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## PURCHASED PART

CONNECTOR AMP P/N 206708-1  
(JPS P/N 0362-005003)  
FEMALE PIN AMP P/N 1-66105-8  
(JPS P/N 0362-005002)

CONNECTOR AMP P/N 206705-4  
(JPS P/N 0362-009001)  
MALE PIN AMP P/N 1-66103-7  
(JPS P/N 0847-000011)



NOTES:

- 1) USE BELDEN 9934 SHIELDED CABLE.
- 2) CONNECT SHIELD DRAIN TO PIN 1 OF P1 ONLY.
- 3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.
- 4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND REV, VENDOR CODE AND DATE (MM/YY).

Designed By:	JAC	<b>Raytheon JPS Communications</b> Raleigh, NC USA		
Drawn By:	JAC	Title CABLE, ACU-T RADIO EXTENSION - 13 FT		
Checked By:	RBP	Size A	Document Number <b>5961-281013-00</b>	Rev A
		Issued Date JANUARY 5, 2004	Sheet <u>1</u> of <u>1</u>	